Taiwanese Patent Publication No. 468437

Retaining Structure for a Sliding Track Assembly of Drawers

A retaining structure for a sliding track assembly of drawers comprises an outer track, an inner track, and a ball track provided with a plurality of balls. The outer track has a pair of first side plates while the inner track having a pair of second side plates. The ball track is sandwiched between the outer track and the inner track, and faciliates the second side plates of the inner track to slide along the first side plates of the outer track. It is characterized in that: the inner track further comprises an actuating plate provided with an actuating hole formed with a V-shaped configuration. The outer track includes a returning mechanism consisting of a base, a sliding block, a pair of elastic members, and a sliding post. The base has a guiding slot formed with a L-shaped configuration. The sliding block is linked to the base via the elastic members. The sliding post is connected with the sliding block and adapted to slide along the guiding slot of the base. When the inner track is pulled out of the outer track, the sliding block is positioned at a first predetermined position by the actuating plate and the elastic members are thus extended. When the inner track is extracted into the outer track, the sliding post disposed on the sliding block is pushed by the actuating hole of the actuating plate so as to release the sliding post from the first position to a second predetermined position. And, a biasing force of the elastic members facilitates to move the inner track in the outer track.

中華民國專利公報 [19] [12]

[11]公告編號：468437
[44]中華民國　90 年 (2001)　12 月 11 日
新型　全 5 頁

[51] Int.Cl ^{07}： A47B88/04

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[54]名　稱：滑軌之自動歸位結構
[21]申請案號：089221993　[22]申請日期：中華民國　89年 (2000)　12 月 16 日
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[57]申請專利範圍：

一種滑軌之自動歸位結構，其主要：係由一滑軌座、滑移板、鋼珠滑片等所組成，其係於一滑軌座內之兩側導槽間滑設一鋼珠滑片，再將滑移板利用兩側之導槽嵌設於鋼珠滑片之內側，並使鋼珠滑片上下之數鋼珠嵌合於滑軌座與滑移片上下導槽所形成之導管內，使滑移板可卡掣滑設於滑軌座內之滑動區中，而使滑移板可於滑軌座內滑動移位；而其特徵在於：

該滑移板後段內面適處固設有一卡持片，並於卡持片上設一卡持體，而該卡持槽係具有一斜向轉折狀開口，而該滑軌座之後段內面固設有一歸位裝置，該歸位裝置係由一歸位座、一歸位塊、兩彈簧及一滑動鈕所組成，而在歸位座上開設有一滑動槽，該滑動槽一端為一開口，另端則向一側彎曲成一卡固口，並歸位座之前方設有一緩衝片，後方兩端則各設有一凸耳，而該歸位塊上係開設有一移位孔，背面設有一嵌槽，兩端設有彈簧室並於彈簧室前端設一凸榫，而該移動鈕之一端係環設有一嵌合槽，藉以而將歸位塊利用嵌槽套設於歸位座上，再將兩彈簧置於歸位塊兩端之彈簧室內，並將彈簧一端鉤掛於彈簧室前端之凸榫上，另端則鉤掛於歸位座後方兩端之凸耳上，再將滑動鈕利用嵌合槽嵌設入歸位座之滑動槽內，並使滑動鈕前端凸伸於歸位塊之移位孔內，而使滑動鈕可帶動歸位塊於歸位座上滑動者。

圖式簡單說明：

第一圖：係本創作之立體系統圖。

第二圖：係本創作之立體外觀圖。

第三圖：係本創作之立體組合圖。

第四圖：係本創作之動作示意圖一。

第五圖：係本創作之動作示意圖二。

第六圖：係本創作之動作示意圖

三。

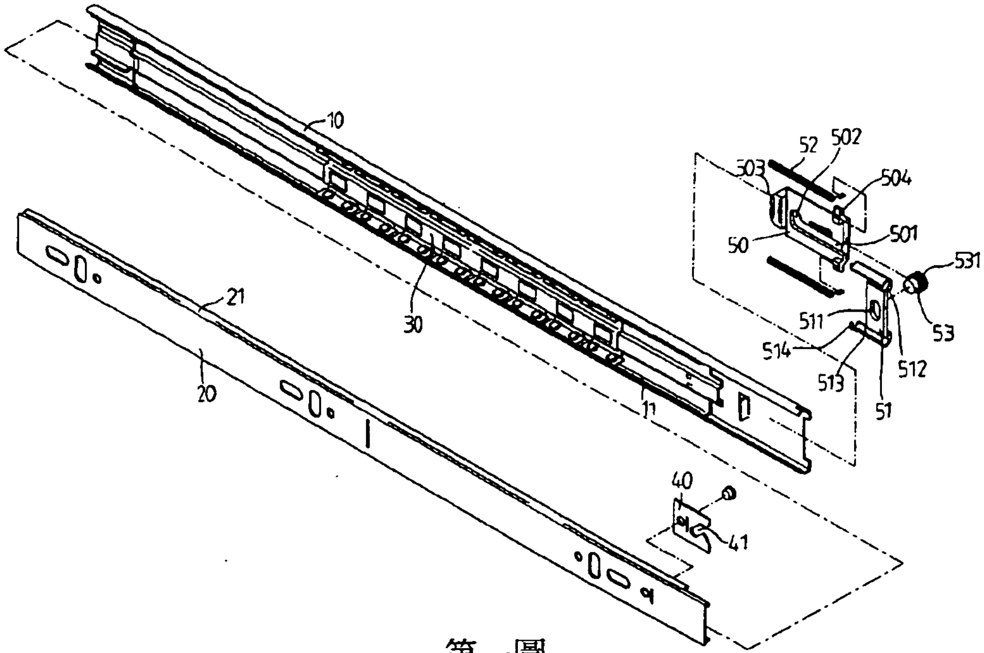
第七圖：係本創作之動作示意圖四。

第八圖：係本創作之歸位動作示意圖一。

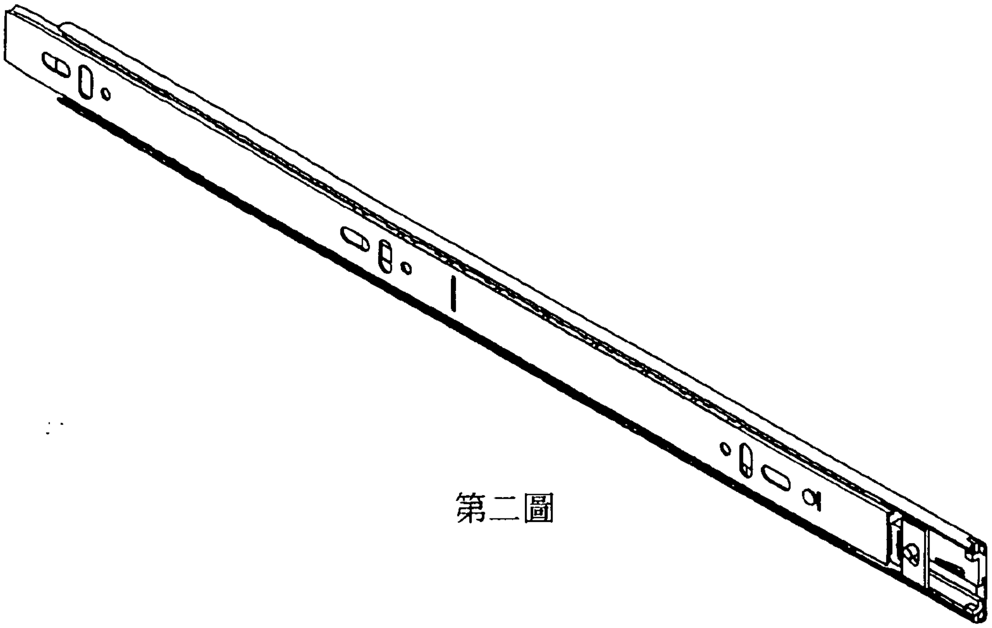
第九圖：係本創作之歸位動作示意圖二。

第十圖：係本創作之歸位動作示意圖三。

第十一圖：係本創作之歸位動作示意圖四。



第一圖



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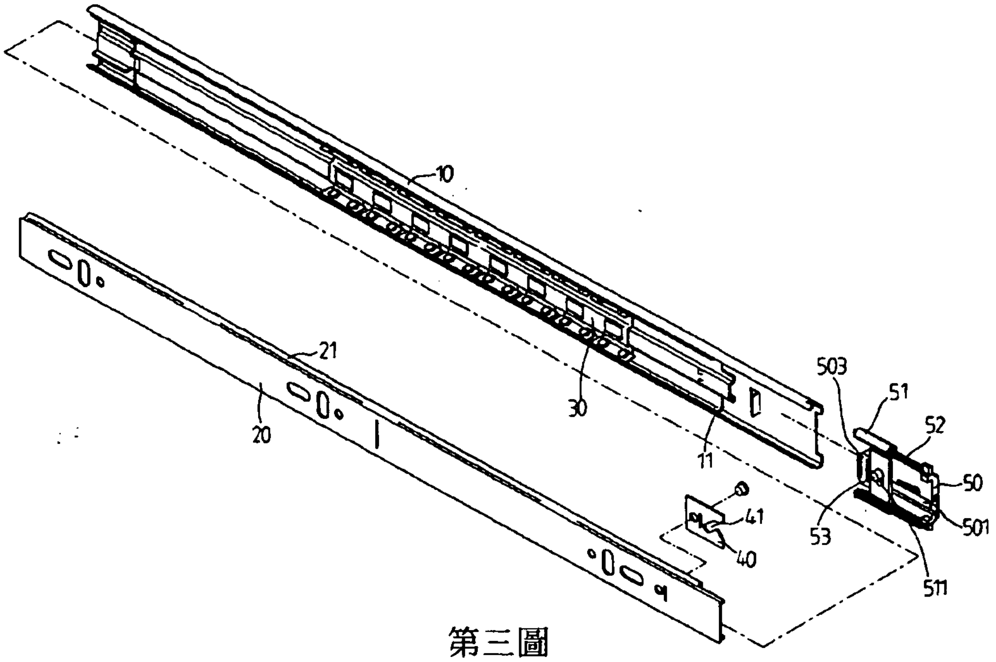

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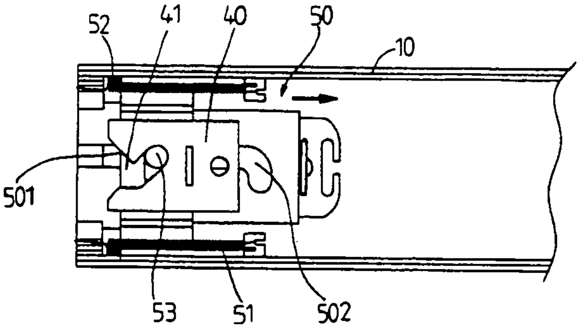

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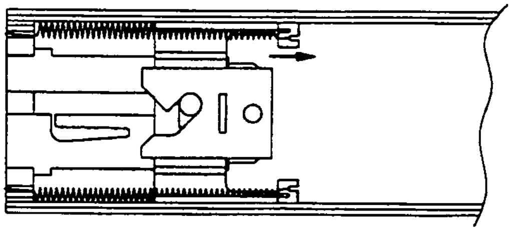

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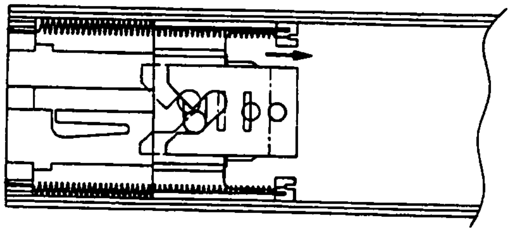

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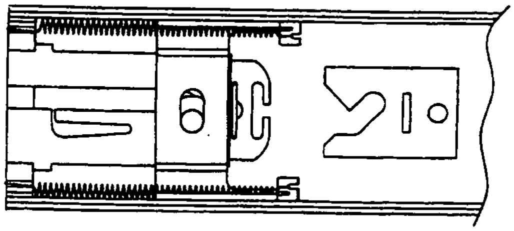

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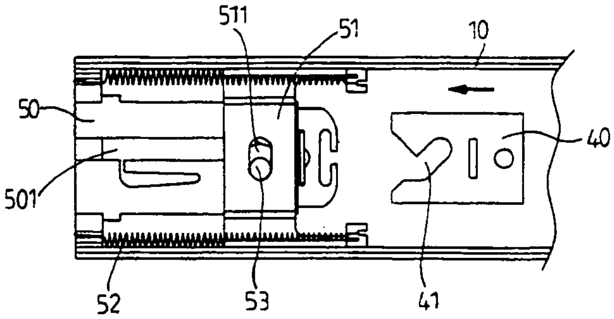

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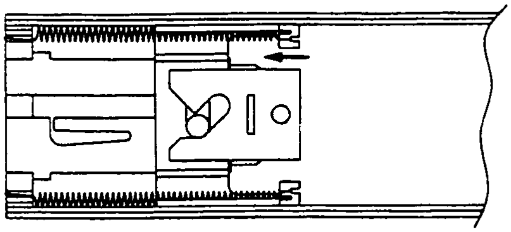

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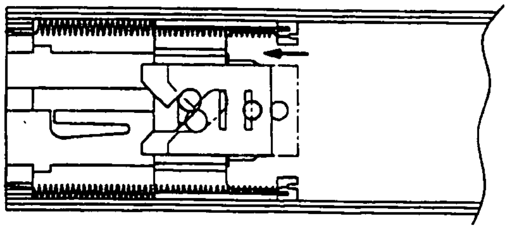
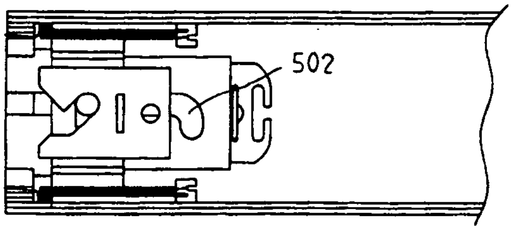


第十圖



第十一圖